



6Y6-GA BEAM POWER TUBE

6Y6-GA

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC). 6.3 volts
Current 1.25 amp

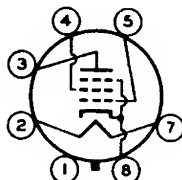
Direct Interelectrode Capacitances (Approx.):⁰

Grid No.1 to plate. 0.66 μ f
Grid No.1 to cathode & grid No.3, grid
No.2, and heater. 12 μ f
Plate to cathode & grid No.3, grid
No.2, and heater. 7.5 μ f

Mechanical:

Operating Position. Any
Maximum Overall Length. 3-7/8"
Maximum Seated Length. 3-5/16"
Diameter. 1.438" to 1.562"
Bulb. T12
Base. Medium-Shell Octal 7-Pin (JEDEC Group 1, No. B7-12),
or Short Medium-Shell Octal 7-Pin with External Barriers,
Style B (JEDEC Group 1, No. B7-119)
Basing Designation for BOTTOM VIEW. 7S

Pin 1 - No Con-
nection
Pin 2 - Heater
Pin 3 - Plate
Pin 4 - Grid No.2



Pin 5 - Grid No.1
Pin 7 - Heater
Pin 8 - Cathode,
Grid No.3

AMPLIFIER — Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 200 max. volts
GRID-No.2 (SCREEN-GRID)
SUPPLY VOLTAGE. 200 max. volts
GRID-No.2 VOLTAGE. See Grid-No.2 Input

Rating Chart at front of Receiving Tube Section

GRID-No.2 INPUT:

For grid-No.2 voltages
up to 100 volts. 1.75 max. watts
For grid-No.2 voltages
between 100 and 200 volts. See Grid-No.2 Input

Rating Chart at front of Receiving Tube Section

PLATE DISSIPATION. 12.5 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . 180 max. volts
Heater positive with respect to cathode. . 180 max. volts

⁰ without external shield.

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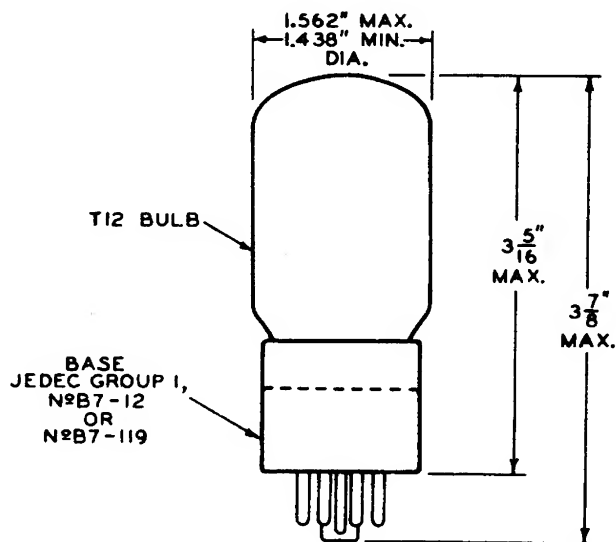
Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation.	1 max.	megohm
For cathode-bias operation.	0.5 max.	megohm

Typical Operation and Characteristics:

Plate Voltage	135	200	volts
Grid-No.2 Voltage	135	135	volts
Grid-No.1 Voltage	-13.5	-14	volts
Peak AF Grid-No.1 Voltage	13.5	14	volts
Zero-Signal Plate Current	58	61	ma
Max.-Signal Plate Current	60	66	ma
Zero-Signal Grid-No.2 Current	3.5	2.2	ma
Max.-Signal Grid-No.2 Current	11.5	9	ma
Plate Resistance (Approx.)	9300	18300	ohms
Transconductance.	7000	7100	μ mhos
Load Resistance	2000	2600	ohms
Total Harmonic Distortion	10	10	%
Max.-Signal Power Output.	3.6	6	watts



92CS-10248